

Candidate Name _____

Centre Number

Candidate
Number

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International General Certificate of Secondary Education
UNIVERSITY OF CAMBRIDGE LOCAL EXAMINATIONS SYNDICATE
PHYSICS
PAPER 5 Practical Test
ANSWER BOOKLET
MAY/JUNE SESSION 2000

0625/5

1 hour 15 minutes

TIME 1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in the answer booklet.

FOR EXAMINER'S USE

1	
2	
3	
4	
TOTAL	

This answer booklet consists of 7 printed pages and 1 blank page.

1 (a), (b) and (c)

time/s	Thermometer A temperature/°C	Thermometer B temperature/°C
0		
30		
60		
90		
120		
150		
180		

[5]

(d) Conclusion

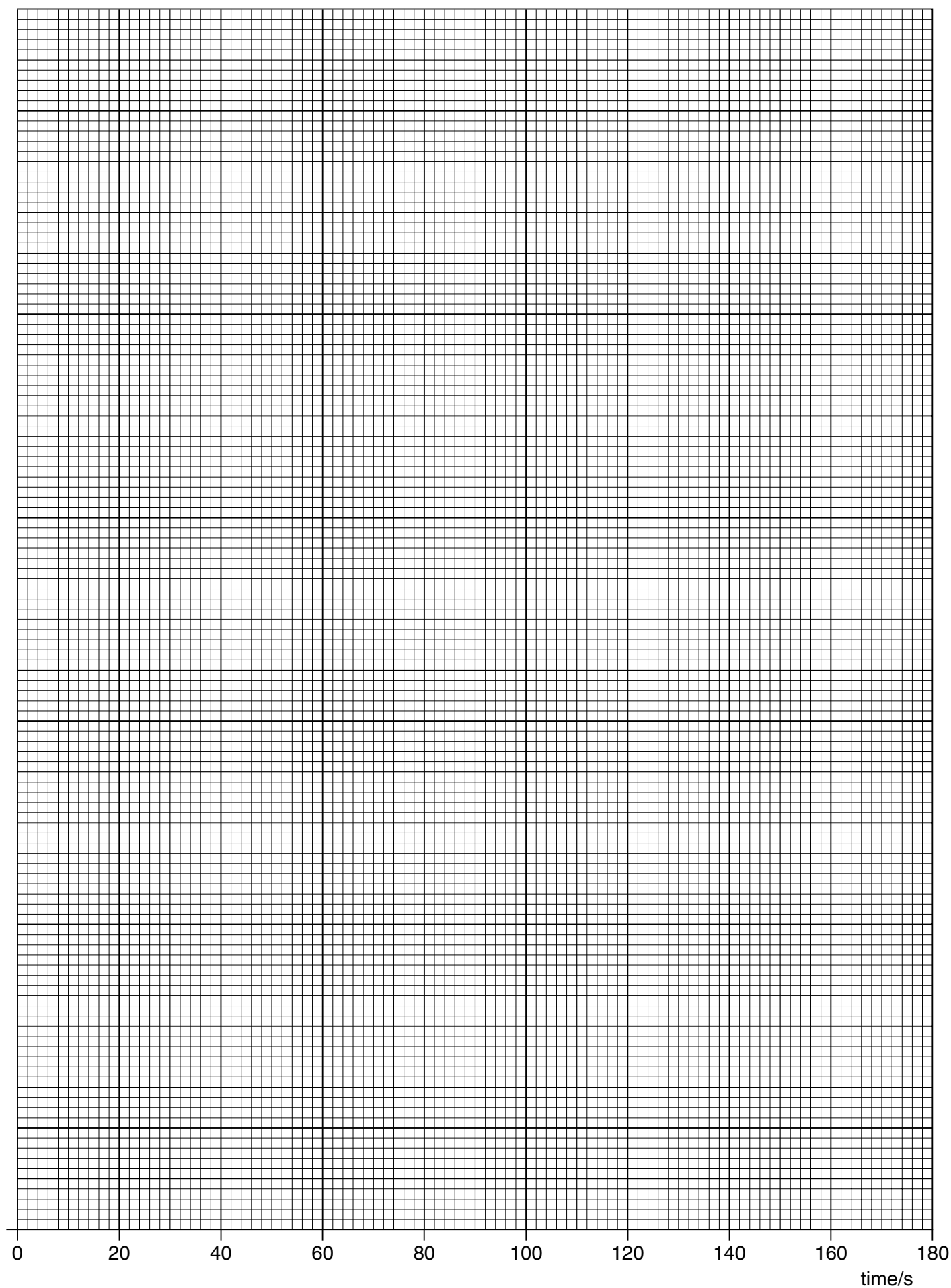
.....
[1]

Justification of this conclusion

.....

[1]

temperature/°C



Thermometer B

time/s

[8]

- 2 (a) Records of length, height and width of block of plasticine

.....

.....

.....

[2]

- (b) Calculation of the volume, using the equation

volume = length x height x width

volume =

[2]

- (c), (d) and (e) Records of x , y and m ($m = Rx/y$)

x/cm

y/cm

m/g

20.0

[4]

- (f) Calculation of average value for m

average value for $m = \dots\dots\dots$

[2]

(g) Calculation of the density using the equation

$$\text{density} = \frac{\text{mass}}{\text{volume}}$$

density =

[2]

(h) Diagrams

Brief description

.....
.....
.....[3]

3 Method 1: Records of readings taken and calculations to determine V_1

$$V_1 = \dots\dots\dots [4]$$

Method 2:

(a) Record of h [2]Records of readings taken and calculations to determine c

$$c = \dots\dots\dots [4]$$

(c) Calculation of V_2 , using the equation $V_2 = \frac{c^2 h}{4\pi}$

$$V_2 = \dots\dots\dots [3]$$

(d) Statement of which value, V_1 or V_2 is the better estimate of V .

.....

Explanation

.....

..... [2]

4 **(c)** Record of r , the angle between **NN'** and **NC**

..... [1]

(d), (e) and (f)

$\theta/^\circ$	$s/^\circ$	$(s - r)/^\circ$
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10

20

30

[4]

(g) Conclusion

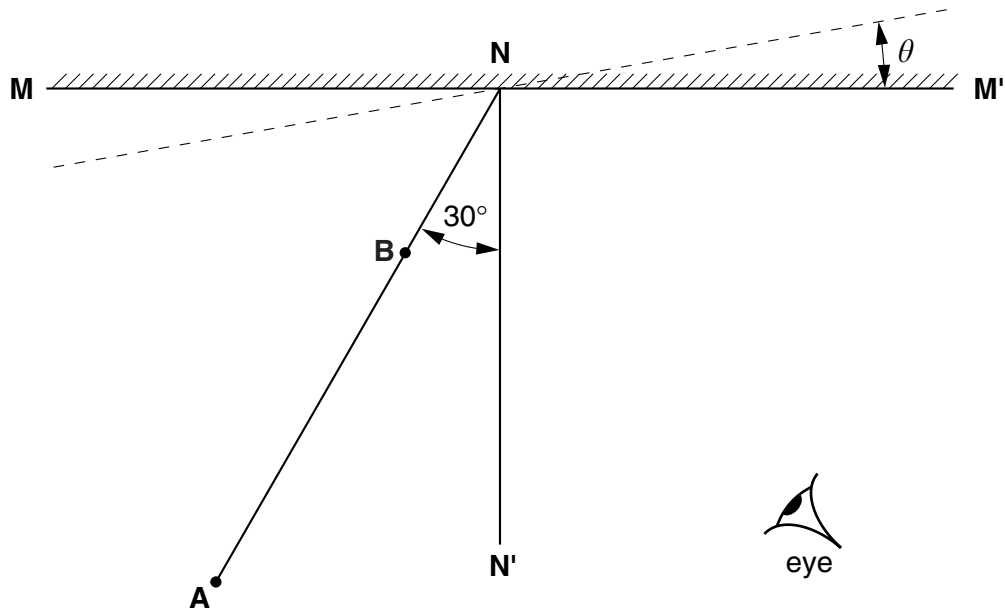
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Justification of conclusion

.....

..... [2]

Ray Trace Sheet for Question 4



[8]

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